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SHREE CEMENT LTD.

Regd. Office & Works :

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305 901, RAJASTHAN, INDIA



SCL/BWR/ENV/9/2011-12/

Date.15/9/2011

Regd. A.D

The Member Secretary
Rajasthan Pollution Control Board
4, Institutional Area, Jhalana Doongri Road
JAIPUR (Rajasthan)

Sub: - Environmental Status of Synthetic Gypsum Manufacturing Plant (1000TPD)
for the period from April, 2010 to March, 2011.

Ref: - Consent to Operate Letter No. F(Tech)/AJMER(Beawar)/4(1)/2008-2009/
6819-6822 dated 30/03/2010.

Dear Sir,

We are submitting herewith the Environmental Status Report for the period from April, 2010 to March, 2011 for Synthetic Gypsum Manufacturing Plant (1000 TPD) of Shree Cement Limited, Beawar (Raj.).

This is for your kind information please.

Thanking you,

Yours faithfully,
For Shree Cement Ltd.

(RAKESH BHARGAVA)
Jt. Vice President (Environment)

Copy to: 1) The In-Charge (Regional Office), Rajasthan State Pollution Control Board, RIICO Industrial Area, Phase-III, Madangunj, Kishangarh (Raj.).

2) The Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (Central Region), Kendriya Bhavan, 5th Floor, Sector 'H' Aliganj, Lucknow (U.P.),

ENVIRONMENTAL STATEMENT

FORM-V

SYNTHETIC GYPSUM MANUFACTURING PLANT

M/S SHREE CEMENT LIMITED,

BEAWAR, (RAJASTHAN)

APRIL, 2010 to MARCH 2011

PART – A

- | | | |
|----|---|--|
| 1. | Name and address of the Owner / Occupier of the Industry operation or process | Shree Cement Limited,
Bangur Nagar
Post Box No. 33
BEAWAR – 305 901
Distt. Ajmer (Rajasthan) |
| 2. | Industry Category
Primary (S.T.C. Code)
Secondary (S.T.C. Code) | Red Category |
| 3. | Production Capacity | 1000 TPD |
| 4. | Year of Establishment | 2009 |
| 5. | Date of the last Environmental Audit Report submitted | First Time |

PART – B
WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process & Cooling : 90045 KL

Domestic : Common colony for existing Cement Plant, Shree Power Synthetic Gypsum, D.G. and Mines.

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year	During Current Financial Year
Synthetic Gypsum	NA	0.471 KL/MT

(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Syn. Gypsum)	
		During Previous Financial Year	During Current Financial Year
1. Water	Synthetic Gypsum	NA	0.471 KL/MT
2. Sulphuric Acid		NA	0.358 KL/MT
3. Lime Stone		NA	0.660 MT/MT

(III) POWER CONSUMPTION (KWH/T OF SYNTHETIC GYPSUM):

During Previous Financial Year	During Current Financial Year
NA	6.1911 KWh/MT

(IV) TOTAL SYNTHETIC GYPSUM PRODUCTION (MT):

During Previous Financial Year	During Current Financial Year
NA	191186

PART – C

DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water	<p>Waste water generated from the scrubber is recycled in the process, so no liquid effluent is generated from the plant process.</p> <p>Domestic waste water generated from residential colony and office toilets is treated in STP and treated water is used in existing cement plant process. Total quantity of treated domestic wastewater during the year 2010-2011 was 42237 KL. Residential colony is common for Shree Cement Limited Unit I & II, Synthetic Gypsum, Mines, Power plants.</p>	
(b)	Air	Ambient air and stack emission level report are annexed as annexure-I & II	

PART – D
HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules amended up to 2010)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year April, 2009 to March,2010	During Current Financial Year April,2010 to March,2011
From Process	We are having a common Authorization for Hazardous waste management and handling for SCL Unit-I & II, Synthetic Gypsum, D.G. Sets, Power plants and Mines.	
	Total quantity generated from April-2009 to March-2010 = 41920 Ltrs. Old stock = 3050 Ltrs. Total used oil received =44970 ltrs Self used=27035 Ltrs. Sell to recyclers=9240 Ltrs. Balance quantity=8695 ltrs	Total quantity generated from April-2010 to March-2011 = 19138 Ltrs. Old stock = 8695 Ltrs. Total used oil received =27833 ltrs Sell to recyclers=19950 Ltrs. Balance quantity=7883 ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year	During Current Financial Year
(a)	From Process	NA	
(b)	From Pollution Control Facility		
(c)	1) Quantity rejected or re-utilized within the unit		
	2) Solid		
	3) Disposed		

PART – F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes:

Hazardous Wastes

No Hazardous waste is generated from the plant except used oil which is drained from Machineries / Equipments. It is used for lubrication in chains, Stacker and Reclaimer etc and partly sold to the registered recycler.

Solid Waste:

NA.

PART – G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

The stack emission from the plant is controlled by three stage scrubber system i.e. Injector & Ventury Scrubber, Wet Cyclone Separator and Scrubbing Towers for control of air pollution. Water used in three stage scrubber system is re-utilized in process, thus it can be said that the utilization of raw material is being done at their cost. Since the system is operated on total recycle, there is no effect on the cost of production.

PART – H

ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION

N.A.

PART-I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT

1. We have full-fledged Environment Department with three separate cells, one for monitoring and one for maintenance of pollution control equipment and one for Green Belt development.
2. Monitoring of stack emission, ambient air, noise and water quality is being done regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept is taking care of Housekeeping.
5. Horticulture Department is taking care of tree plantation and green belt development.

On support of above, we are enclosing herewith following:-

Annexure – I	:	Stack Emission Level Report
Annexure – II	:	Ambient Air Quality Report
Annexure – III	:	Noise Level Report

Annexure-I

AMBIENT AIR QUALITY ($\mu\text{g}/\text{M}^3$) FOR PERIOD FROM APRIL 2010 TO SEP 2010

Location Month	Plant boundary near village sarakana			Plant boundary near Coal yard			Railway siding			Satkanr guest house				Main gate		
	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	RSPM	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x
Apr-10	178	9	10	367	9	11	163	9	12	53	144	8	11	313	10	12
May-10	188	9	11	383	10	11	175	9	11	58	151	9	10	319	10	11
Jun-10	168	8	10	366	10	11	166	8	11	55	153	8	10	328	9	11
Jul-10	166	8	11	368	10	11	168	8	11	54	151	9	11	330	9	11
Aug-10	162	8	11	361	9	10	160	8	10	51	150	8	10	315	9	10
Sep-10	171	8	11	365	9	11	165	9	11	54	152	8	10	322	10	11
Average	172	8	11	368	10	11	166	9	11	54	150	8	10	321	10	11

AMBIENT AIR QUALITY ($\mu\text{g}/\text{M}^3$) FOR PERIOD FROM OCT 2010 TO MARCH 2011

Location Month	Plant boundary near village sarakana				Plant boundary near Coal yard				Railway siding				Satkanr guest house				Main gate			
	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x
Oct-10	-	39	8	11	-	43	9	11	-	36	8	11	-	31	7	10	-	33	9	12
Nov-10	-	36	9	12	-	39	9	12	-	33	7	10	-	32	8	11	-	36	8	11
Dec-10	64	37	9	12	74	40	8	12	68	34	7	11	62	30	8	11	71	34	8	12
Jan-11	78	40	8	11	76	36	8	13	72	31	6	11	60	28	7	12	68	35	9	12
Feb-11	76	39	9	12	75	35	8	13	73	31	8	11	61	29	8	12	70	33	8	12
Mar-11	60	35	8	12	65	36	8	12	64	30	8	12	57	29	8	11	63	31	8	12
Average	70	38	8	12	73	38	8	12	69	33	7	11	60	30	8	11	68	34	8	12

Annexure-II

STACK EMISSION LEVEL PM (mg/Nm³) FOR YEAR 2010-11

MONTH	PM Level
Apr-10	19
Jul-10	47
Oct-10	38
Jan-11	36

Annexure-III

NOISE LEVEL (Leq-dB(A)) FOR YEAR 2010-2011

Monitoring Location Month	Plant boundary near village Sarkana		Plant boundary near Coal yard		Railway Siding near Shree Power		Satkar guest house		Main Gate	
	Day Time	Night Time	Day Time	Night Time	Day Time		Day Time	Night Time	Day Time	Night Time
Apr-10	59.2	54.1	60.3	52.7	61.3	Apr-10	59.2	54.1	60.3	52.7
May-10	59.7	54.4	60.5	52.5	61.8	May-10	59.7	54.4	60.5	52.5
Jun-10	58.9	54.6	60.1	52.6	61.6	Jun-10	58.9	54.6	60.1	52.6
Jul-10	58.8	54.5	60.3	51.8	61.1	Jul-10	58.8	54.5	60.3	51.8
Aug-10	58.6	54.4	60.4	52.5	61.5	Aug-10	58.6	54.4	60.4	52.5
Sep-10	58.7	54.5	60.3	52.6	61.3	Sep-10	58.7	54.5	60.3	52.6
Oct-10	57.6	53.6	61.2	53.2	60.5	Oct-10	57.6	53.6	61.2	53.2
Nov-10	61.5	55.6	64.2	58.2	63.5	Nov-10	61.5	55.6	64.2	58.2
Dec-10	67.8	56.8	68.5	59.2	61.8	Dec-10	67.8	56.8	68.5	59.2
Jan-11	68.9	55.9	70.6	58.9	62.5	Jan-11	68.9	55.9	70.6	58.9
Feb-11	67.8	54.6	70.2	58.9	63.2	Feb-11	67.8	54.6	70.2	58.9
Mar-11	68.5	56.8	69.8	57.6	62.9	Mar-11	68.5	56.8	69.8	57.6
Average	62.2	55.0	63.9	55.1	61.9	Average	62.2	55.0	63.9	55.1